LOREX®
VIEW YOUR WORLD™

SECURITY CAMERA SYSTEM

WATCH OVER YOUR WORLD—
FROM ANYWHERE IN THE WORLD.

THE ECONOMICAL SECURITY SOLUTION IDEAL FOR BUSINESS.

- INSTANT MOBILE VIEWING
- HIGH STORAGE CAPACITY
- DAY/NIGHT VIDEO SURVEILLANCE
- EASY CONNECT WIZARD

VANTAGE

LH110 ECO SERIES

www.lorextechnology.com

LOREX
VIEW YOUR WORLD™

SECURITY CAMERA SYSTEM

PROFESSIONAL-GRADE VIDEO SURVEILLANCE
A system that connects you to your entire property.

RELIABILITY YOU CAN DEPEND ON
For high quality viewing and playback.

WATCH FROM YOUR SMART PHONE
And get instant email alerts!

* For the latest smart phone compatibility list & free App download† check www.lorextechnology.com

VANTAGE

LH110 ECO SERIES

LOREX SECURITY CAMERA SYSTEM

VIEW YOUR WORLD™

DIGITAL VIDEO RECORDER:

- H.264 compression video compression[1]
- Real time recording @ 360 x 240 resolution
- Pentaplex operation - View, Record, Playback, Back Up & Remotely Control the system simultaneously
- 24/7 100% Duty cycle hard drive pre-installed

CONNECTIVITY:

- Instant Mobile Viewing on compatible Smart phones†
- Exclusive LOREX Easy Connect Internet Set-up Wizard [2]
- PC (Microsoft Windows™ 7/Vista/XP) compatible using Internet Explorer® browser
- Free LOREX DDNS (Dynamic Domain Name Service) for advanced remote connectivity at all times
- Instant email alerts

CAMERAS:

- All purpose cameras with flex mounting
- IR Cut Filter provides accurate color reproduction in any lighting conditions
- Night vision range**
- Install indoor or outdoors (IP66)***

INSIDE THE BOX:

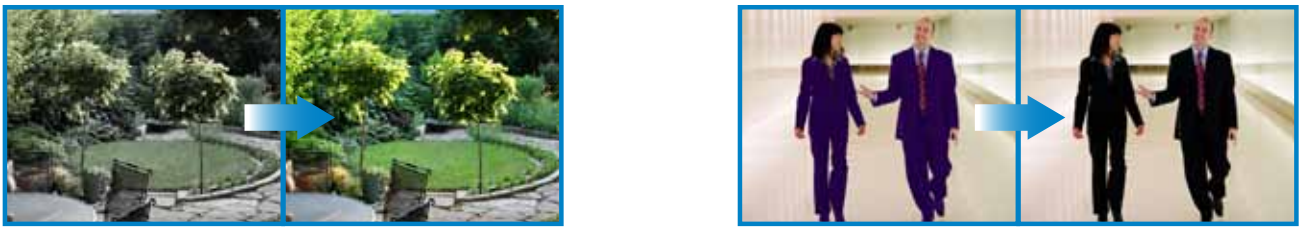
- 16 Channel DVR with pre-installed HDD
- 8 or 16 x Cameras with stands
- Easy-to-follow Quick Setup Guide and Manual
- ALSO INCLUDES: Remote Control, Power Adapters, Mouse, Ethernet Cable, Audio Harness Cable, CD and 8 or 16 x 60-ft BNC/DC Extension Cables

MOUNTING OPTIONS

TABLE MOUNT | CEILING MOUNT | WALL MOUNT

SYSTEM WITH 480TVL CAMERAS OFFER

AIS IMAGE SENSOR + EXCLUSIVE INFRARED FILTER TECHNOLOGY

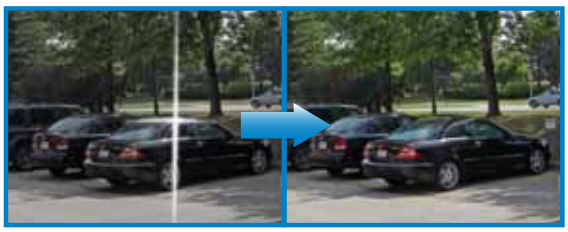


Accurate color reproduction in varying lighting conditions

PURE FLAT™ LENS

Eliminates image curving for an undistorted view

ANTI-GLARE TECHNOLOGY



Clear images under strong lighting conditions

VANTAGE

LH110 ECO SERIES

**IR Illumination range under ideal conditions. Objects at or beyond this range may be partially or completely obscured, depending on the camera application.

***Not intended for submersion in water. Installation in a sheltered location recommended.

www.lorextechnology.com

DVR & CAMERA SPECIFICATIONS

SYSTEM	
Operating System	Linux (embedded)
Pentaplex	Simultaneous View, Record, Playback, Backup & Remote Monitoring
Number of Channels	**16** Channel
Inputs/Outputs	
Video IN	16 x 1Vp-p, CVBS, 75ohms, BNC/DIN
Video OUT	2 x BNC
VGA OUT	Yes
Audio IN	16 Line in(BNC), ADPCM(16 ch)
Audio OUT	2 line out(BNC), ADPCM(16 ch)
USB Port	2 at the back
Alarm IN	16 ch IN
Alarm OUT	16 ch OUT
PTZ control	RS-485 Pelco D & P Protocol
Display	
Live Display	**16 ch:** 1, 4, 8, 16
Live Display Speed	120 (4 ch)/ 240 (8 ch)/ 240 (16 ch) NTSC 100 (4 ch)/ 200 (8 ch)/ 200 (16 ch) PAL
OSD	ON/OFF
System Navigation	USB Mouse, IR Remote Controller, Front Panel
Motion Area Setting	Adjustable grid (10 x15) NTSC Adjustable grid (12 x15) PAL
Sensitivity levels	8
Firmware Upgrade	Via USB device
User Authority	By user group
Time Synchronization	Auto time sync by NTP server
RECORDING	
Video Compression	H.264
Audio Compression	ADPCM
Recording Resolution	NTSC: 360x240 (CIF), 720x240 (HD1), 720x480 (D1) PAL: 360x288 (CIF), 720x288 (HD1), 720x576 (D1)
Recording Speed:	**16 ch:** 480/400 (NTSC/PAL) @ CIF, 240/120(NTSC/PAL) @ HDI, 120/100 (NTSC/PAL) @ DI
Recording Resolution Setting	Per camera for different resolutions (CIF/2CIF/D1)
Recording Quality Control	3 levels
Image Size	768-1536 Kbyte (D1), 512-768 Kbyte (HD1) , 384-512 Kbyte (CIF)
Recording Schedule	By hour, by day, by recording mode, by alarm, by ch
Pre Recording	Max. 10 Secs
Post Recording	Max. 5 Minutes
Reliability	Watch-Dog, Auto-recovery after power failure
Covert Video	Yes

PLAYBACK	
Playback Channel	1,4,8,16 (16 ch)
Playback Speed	Variable Max 16x
Playback Players	Backup Player
Search	By time & event
Log Search	Up to 10,000 lines for user login/out, configuration changes, remote access, connects/disconnects
Audio Play	Yes
STORAGE & ARCHIVE	
Storage	**16 ch:** Up to 2 HDD's (SATA)
Maximum Capacity	**16 ch:** Up to 2 x 2 TB
Backup Media	USB Flash Drive & HDD
Backup File Format	H.264 file (AVI generator included)
CONNECTIVITY	
Easy Connect	Lorex Auto Port Forward Wizard
Supported Operating Systems	Windows™ XP, Vista, 7
Browsers	Internet Explorer
Email notification	Text with snapshot
Instant Smart Phone Compatibility†	Instant Smart Phone Compatibility on iPhone™, BlackBerry (supported model numbers: 9700, 9000), Android (version 1.5 & above), Window Mobile (6.0, 6.5), Symbian 3rd & 5th generation phones.
DDNS	Free Lorex DDNS
System Configuration	Full setup configuration over network
Ports	Programmable by User
Network Protocol	LAN, DHCP, Dynamic IP, DDNS
Network Interface	10/100-Base-TX, RJ-45
Network Speed Control	48Kb ~ 8MB/sec.
GENERAL	
Power Consumption	**16 ch:** Approx. 15 watts
Supply Voltage	**16 ch:** 100VAC-240VAC, 12VDC , 5A, 50/60Hz
Unit Dimensions	**16 ch:**14.96" /380mm x13.39"/340mm x 1.97"/50mm
Unit Weight (KGs)	**16 ch:** 3 kg/6.6 Lbs
Operating temperature	32° ~ 104° F / 0° ~ 40° C
Humidity	10 ~ 90% NC

CAMERA CVC6930:

Image Sensor:	High Resolution 1/4" Advanced Color Image Sensor
Video Format:	NTSC
Effective Pixels:	H: 656, V: 492
Resolution:	420 TV Lines
Scan System:	2:1 Interlace
Sync System:	Internal
S/N Ratio:	More than 48dB
Iris:	AES
AES Shutter Speed:	1/60~1/50,000 Sec
Mini Illumination:	0.6 Lux without IR LED, 0 Lux with IR LED
Video Output:	Composite 1.0Vpp @ 75 ohm
Lens/Lens Mount:	5.1mm F 2.8/ Fixed
FOV (Diagonal):	50 degrees
Termination:	BNC Type
IR LED/ Night Vision Range:	18 pieces / 850 nm / 40ft/12m
Power Requirement:	12V DC
Power Consumption:	250 mA or 3W max
Operating Temp Range:	-10° ~ 50° C
Environmental Rating:	IP 66

CAMERA CVC6950:

Image Sensor:	High Resolution 1/4" Advanced Color Image Sensor
Video Format:	NTSC
Effective Pixels:	H: 656, V: 492
Resolution:	480 TV Lines
Scan System:	2:1 Interlace
Sync System:	Internal
S/N Ratio:	More than 48dB
Iris:	AES
AES Shutter Speed:	1/60~1/50,000 Sec
Mini Illumination:	0.6 Lux without IR LED, 0 Lux with IR LED
Video Output:	Composite 1.0Vpp @ 75 ohm
Lens/Lens Mount:	5.1mm F 2.8/ Fixed
FOV (Diagonal):	50 degrees
Termination:	BNC Type
IR LED/ Night Vision Range:	18 pieces / 850 nm / 50ft/15m
Power Requirement:	12V DC
Power Consumption:	250 mA or 3W max
Operating Temp Range:	-10° ~ 50° C
Environmental Rating:	IP 66

PRODUCT INFORMATION

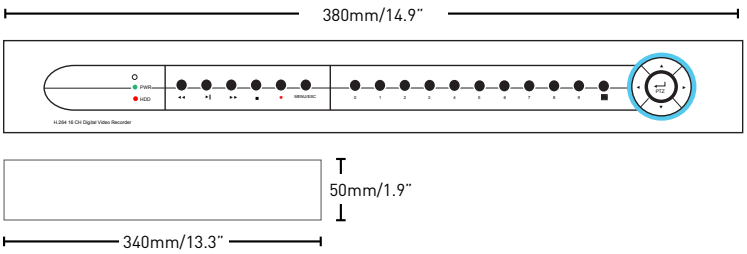
Back Panel:

Product Information:

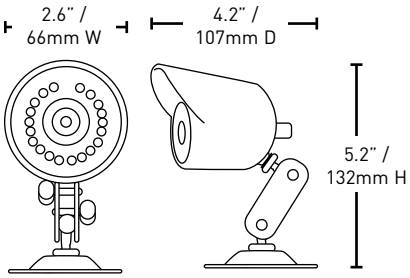
MODEL	CONFIGURATION	PACKAGE	W x D x H	WEIGHT	CUBE	UPC Code
LH16810B	16 ch DVR x 8 (480) TVL Cameras x 1TB HDD	Brown	485mm x 390mm x 355mm/ 19.12" x 15.37" x 14"	11.1 kg/24.6 lbs	0.000039m /2.38ft	7-78597-11610-6
LH1161001C8B	16 ch DVR x 8 (480) TVL Cameras x 1TB HDD	Brown	485mm x 390mm x 355mm/ 19.12" x 15.37" x 14"	11.1 kg/24.6 lbs	0.000039m /2.38ft	7-78597-11605-2
LH1610	16 ch DVR x 16 (420) TVL Cameras x 1TB HDD	Retail	629mm x 368mm x 402mm/ 24.75" x 14.5" x 15.82"	17.9 kg/39.5 lbs	0.108170m /3.28ft	7-78597-11607-6
LH1161001C16	16 ch DVR x 16 (420) TVL Cameras x 1TB HDD	Retail	629mm x 368mm x 402mm/ 24.75" x 14.5" x 15.82"	17.9 kg/39.5 lbs	0.108170m /3.28ft	7-78597-11606-9
LH16161B	16 ch DVR x 16 (480) TVL Cameras x 1TB HDD	Brown	629mm x 368mm x 402mm/ 24.75" x 14.5" x 15.82"	17.9 kg/39.5 lbs	0.108170m /3.28ft	7-78597-11609-0
Includes	16 Ch DVR with 1TB HDD, Remote Control, Power adapter, Mouse, Ethernet Cable, Audio Harness Cable, CD, QSG, Instruction Manual, 8 or16 x Cameras, 8 or 16 x Camera Stands, 8 or 16 x 60ft BNC/DC extension cables, 8 or 16 x Camera Power Adaptors (or 2 or 4 x 4 in 1 camera power adaptor(s)					

Dimensions:

DVR



Camera:



DISCLAIMERS:

1. Recording time may vary based on recording resolution & quality, lighting conditions and movement in the scene.
2. Requires a high speed internet connection and a router (not included).
† Instant Smart Phone Compatibility on iPhone™, BlackBerry (supported model numbers: 9700, 9000), Android (version 1.5 & above), Window Mobile (6.0, 6.5), Symbian 3rd & 5th generation phones. Selectable one channel live viewing. Mobile phone data plan is required (not included). Router port forwarding required. For the latest smart phone compatibility list check www.lorextechnology.com as new smart phone models become available in the market.
**IR Illumination range under ideal conditions. Objects at or beyond this range may be partially or completely obscured, depending on the camera application.
***Not intended for submersion in water. Installation in a sheltered location recommended.
All trademarks belong to their respective owners. No claim is made to the exclusive right to use the trademarks listed, other than the trademarks owned by Lorex Technology Inc. We reserve the right to change models, configurations or specifications without notice or liability. Product may not be exactly as shown. Images are simulated.

Lorex Technology Inc.

250 Royal Crest Court, Markham,
Ontario L3R 3S1
Canada.

3700 Koppers Street
Baltimore, Maryland 21227,
USA.

©2011 Lorex Technology Inc.
As our product is subject to continuous improvement, Lorex Technology & subsidiaries reserve the right to modify product design, specifications & prices without notice and without incurring any obligation. E&OE.